

【ABSTRACT】

FOOD WASTE VACUUM-DRYING DISPOSAL SYSTEM

The present invention relates to a food waste vacuum-drying disposal system and, particularly, to a food waste vacuum-drying disposal system, which can be installed in a food waste collection vehicle due to the simple structure thereof and can carry out vacuum-dry disposal of food waste even while moving during food waste collection. The food waste vacuum-drying disposal system of the present invention is a device capable of: sterilizing and drying inputted food waste by heat converted from a light emitted from a heating element inside a vacuum tank; condensing and discharging, as condensed water, evaporated and sublimed gas generated during a drying process; and discharging, in the air, non-condensed gas such that food waste leachate can be disposed at the same time. Therefore, since radiant heat in a vacuum tank is transformed into heat upon contacting the surface of food waste such that drying is carried out quickly, the present invention can remarkably reduce decomposition, odor, contamination caused by a leachate, proliferation of bacteria, and the like, which may occur during a collection, transport, and disposal process, thereby enabling sanitary disposal and recycling.

Fig. 1